



101141-21 Project.ST25.txt  
SEQUENCE LISTING

<110> Chan, Raquel

<120> Transcription factor gene induced by water deficit conditions ...

<130> 101141-21

<140> 10/520,033

<141> 2000-05-02

<160> 22

<170> PatentIn version 3.3

<210> 1

<211> 774

<212> DNA

<213> Helianthus annuus

<400> 1

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aaacgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga      180
cccaggttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg      240
gcgatatggt tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat      300
aacgcgctaa agcataacta cgagacgctt gcgctctaat ccgagtctct aaagaaagag      360
aatcaggccc tactcaatca ggtatggttg caaacttaca atgttgcatt caactattta      420
agtagttttg aatttttgtg acaataaaga ttgacaaatg ttgtttgata attgattaac      480
agttggaggt gctgagaaat gtagcagaaa agcatcaaga gaaaactagt agtagtggca      540
gcggtgaaga atcgatgat cggtttacga actctccgga cgttatgttt ggtcaagaaa      600
tgaatgttcc gttttgcgac ggttttgcgt actttgaaga aggaaacagt ttgttggaga      660
ttgaagaaca actgccagac cctcaaaagt ggtgggagtt ctaaagagta aagaaggatg      720
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<210> 2

<211> 673

<212> DNA

<213> Helianthus annuum

<400> 2

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aaacgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga      180
cccaggttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg      240
gcgatatggt tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat      300
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## 101141-21 Project.ST25.txt

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aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtctct aaagaaagag 360
aatcaggccc tactcaatca gttggagggtg ctgagaaatg tagcagaaaa gcatcaagag 420
aaaactagta gtagtggcag cgggtgaagaa tcggatgatc ggtttacgaa ctctccggac 480
gttatgtttg gtcaagaaat gaatgttccg ttttgcgacg gttttgcgta ctttgaagaa 540
ggaaacagtt tgttggagat tgaagaacaa ctgccagacc ctcaaaagtgt gtgggagttc 600
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gtttacactt tgt 673

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<210> 3
<211> 1221
<212> DNA
<213> Helianthus annuus

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<220>
<221> promotor
<222> (1)..(1221)
<223> Large allele

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<400> 3
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atattaaaag tagtagcccc cccccccatt tgttacctac catttcccac tttaataatc 180
accacgcta tgtccacttg tactttttgtt tgcacacaac tcttcccata aaatatcaaa 240
ccaaattttt ttagtgggaa acaaaattcc ccaaatagaa tactaacgaa attcatcgca 300
tcagaatata ctcatctctg aacagtggcg aagcttgacg ttttcgacgg ggggtcggaa 360
aacgtatgta cccgaaattt ctatagaatc ggggggtcga aaacgtatat acccaaaatt 420
tctatacgaa aactacatat ataacactac tgagcaaaaa gttcgggggt tcgggcgccc 480
ctcccgcccc cttcaaagct tcgccaatgt ctctgaaccg aagaaaaccc tcaactgtct 540
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catcaacagg tgccgccgaa acaaaatgct gggggcgggg gttgaaccta ggtccagtga 780
cgcacccatg aatttttttt ctagggatgc gaacgagtgg tttaaccata cttttaagag 840
gtgcatcgga aaattttacc tataaaatac actaaaaaag ttccaagggt ccacccaccc 900
cttaacctaa gtccgccttt gtctggatca cgtgaaacat caggctcttc ccttaccagt 960
ccagctacga ctattgaca aaatatcaaa accatatgat tttgagtttt atctcaaccg 1020
aaagtgcata catgacagag aatcgacata accaaaacgt gtaaacgtac aactcaccat 1080

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tgcgttgaaa aggacaaaac aggtaggatt cttgtcaaat tcaacgcgta cacctgtgct 1140  
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 ataatatcac ttatcaaacc c 1221

<210> 4  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on promotor and having Hind III site

<400> 4  
 gcgaagcttg atgcgaacga gtggttta 28

<210> 5  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promoter and having Sal I site

<400> 5  
 gcggtcgaca cctggcacat cgtatctt 28

<210> 6  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promoter and having Bam HI site

<400> 6  
 cgcggtccg agggtttgat aagtgat 27

<210> 7  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promoter and having Hind III site

<400> 7  
 cccaagctta acctaagtcc gcctttg 27

<210> 8  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Designed oligonucleotide based on the 5' promotor

<400> 8

ggcaagctta tctcaaccga aagtgc

27

<210> 9

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide based on the 5' promotor

<400> 9

atttcgcaag tagtccatt

19

<210> 10

<211> 1015

<212> DNA

<213> Helianthus annuum

<400> 10

gatccaattg gaccacctgg cacatcgat cttatctctt ttgtcgtttc caacacacca 60

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atattaaaag tagtagcccc caccgccatt tggtacctac catttccac ttaataatc 180

accacgcta tgtccacttg tacttttgtt tgcacacaac tcttccata aaatatcaaa 240

ccaaattttt ttaaatggaa acaaataact tcaaatgcac tattggtgaa attcaccaca 300

tcagaatata cccgtctcta ctcatctact ggccaacgaa tcttcacggg ggaaaccctc 360

actcgtctac tgggactact ggcgcttcaa aatggactac tgacaaaatt caccacatcg 420

ggatacactt gtctactgcg gtgaggtaaa atccgccgct cagctcaatg atcgaactag 480

cgatcgccac ccactcacct tgtctcccat catcaccagg tgccgcaaaa acaaaatggt 540

gggggcgagg attgaacctt ggtccagtgg cgcacccatg aatttttttt ctagggatgc 600

gaacgagtga ttaaacata cttttaagag gtgcatcg aaattttacc tataaaatat 660

actaaaaaaaa tttcaagggt ccgcccaccc acccctaac ctaagtccgc ctctgcctgg 720

atcacgtgaa acatcagggt tctctcttac cagttcacct acaactcatt gacaaaatat 780

caaaaccata tgattttgag ttttatctca accgaaagt acatcatgac agagaatcga 840

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gattcttgct aaattcaacg cgtacacctg tgcttcatct aaacccata ctttaagaac 960

ctttataaag accactcact atatatacac atatataata tcacttatca aaccc 1015

<210> 11

<211> 28

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide that matches nucleotides 81-100 of the  
 Hahb-4 cDNA sequence and having Bam HI site

<400> 11  
 ggcgcatcca acagaaacaa ccaccagg 28

<210> 12  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide for cloning 5' cDNA and having Bam HI  
 site

<400> 12  
 ggcgcatccc ctggtggttg tttctgttg 29

<210> 13  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide based on 5' cDNA and having Xho I site

<400> 13  
 gaggactcga gctcaagttt tttttttttt tttt 34

<210> 14  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide based on 5' cDNA and having Xho I site

<400> 14  
 gaggactcga gctcaagc 18

<210> 15  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promotor and having Eco RI  
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<400> 15  
 gccgaattca gattgagcaa gagtataac 29

<210> 16  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promotor  
 <400> 16  
 acctttataa agaccactc 19

<210> 17  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promotor  
 <400> 17  
 acgcaatggt gagttgtac 19

<210> 18  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> oligonucleotide to DNA-binding assays  
 <400> 18  
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<210> 19  
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 <212> DNA  
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<220>  
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 <400> 19  
 gatcctctca attattgaga tctg 24

<210> 20  
 <211> 30  
 <212> DNA  
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<220>  
 <223> oligonucleotide having Bam HI site  
 <400> 20  
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<210> 21  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> oligonucleotide having Sac I site

<400> 21  
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<210> 22  
<211> 27  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligonucleotide having Bam HI site

<400> 22  
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